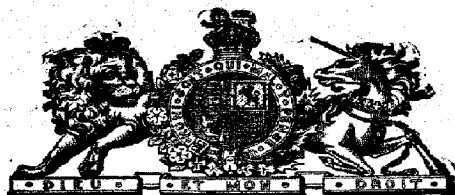


For index See Vol for 1854-1888



JAMAICA.

JULY 30, 1881.

No. 1.

# WEATHER REPORT

FOR THE MONTH OF JUNE,

1881.

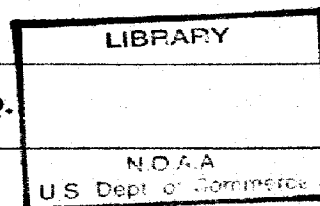
FROM THE JAMAICA GAZETTE:

28th July, 1881,

WITH ADDITIONS AND CORRECTIONS.

QC  
987  
.J25  
W34  
1881  
[June-Aug]

Published by Authority.



JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1881.

# **National Oceanic and Atmospheric Administration**

## **Climate Database Modernization Program**

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March 28, 2002

# METEOROLOGICAL RESULTS FOR JUNE, 1881.

KINGSTON:—			NORTHERN DIVISION—continued.		
		Inches.			JUNE.
Mean Pressure	...	29.976			1881.   Average.
" Temperature	...	81° 1			INCHES. INCHES.
" Maximum Temp.	...	88.9	Belmont Pen	...	...
" Minimum Temp.	...	74.2	Georgia	...	2.46
" Range of Temp.	...	14.7	Steelfield	...	3.08
" Direction of the Wind	...	S.E.	Etingdon	...	2.56
" Velocity of the Wind	5 Miles per Hour	72° 7	Oxford	...	2.35
" Temp. of the Dew-point	...	77	Cambridge	...	4.45
" Humidity	...	60	Spring	...	2.12
" Percentage of Cloud	...	0.94	Lottory	...	2.50
Total Rainfall in inches	...	0.94	Falmouth	...	1.87
Average Weather:—Fair and warm, with occasional showers.			Holland	...	1.35
The highest temperature was 92° 0 recorded on the 30th; the lowest was 71° 5 recorded on the 26th; the extreme range was therefore 20° 5.			Golden Grove	...	5.30
THE RAINFALL FOR JUNE, 1881.			Green Park	...	2.63
NORTH EASTERN DIVISION.			Tilston	...	5.67
		JUNE.	Orange Valley	...	2.68
		1881.   Average.	Kent	...	2.52
		INCHES. INCHES.	Dundee	...	7.43
Morant Point L. H.	St. Thomas	4.45 6.24	Gales Valley	...	...
Hordley	...	6.21	Greenwood	St. James	2.15
Potosi	...	7.81	Lima	...	1.43
Port Antonio	Portland	9.66	Content	...	2.40
Spring Garden	...	...	Gaillsbro'	...	6.95
Chepstow	...	...	Spring Vale	...	14.47
Cinchona Plantation	St. Andrew	2.43 6.33	Salters Hill	...	6.26
Belle Vue	...	3.64	Success	...	3.16
Stony Hill	...	4.31	Running Gut	...	2.24
Castleton Gardens	St Mary	6.10 8.24	Tryall	...	2.80
Water Valley	...	3.06 4.88	Irwin	...	...
New Ramble	...	4.23	Ironshore	...	5.54
Gayle	...	...	Catherine Hall	...	9.82
Goshen	...	3.55	Catherine Mount	...	6.76
Rio Hoe	St. Ann	13.97	Fairfield	...	7.02
Unity Valley	...	...	Mean	...	4.28 3.96
Albion	...	6.17 5.58			
Bradfield	...	4.86			
Windsor	...	...			
Drax Hall	...	3.38 3.26			
Seville	...	1.76			
Richmond Estate	...	4.75			
Llandovery	...	4.10			
Mean	...	5.04 5.81			
NORTHERN DIVISION.			WEST CENTRAL DIVISION.		
		JUNE.			JUNE.
		1881.   Average.			1881.   Average.
		INCHES. INCHES.			INCHES. INCHES.
Lillyfield	St. Ann	5.77	Linstead	St. Catherine	7.24
Home Castle	...	...	Worthy Park	...	7.24
Richmond Pen	...	...	Chapelton	Clarendon	...
Calchis Pen	...	...	Pennants	...	4.92
Mahogany Hall	Trelawny	4.52	Whitney	...	11.26
Hopewell	...	7.34	Cave Valley	St. Ann	4.45
Brampton Bryan	...	3.78 3.62	Cedar Grove	Manchester	...
Bryan Castle	...	3.73 2.85	Hanbury	...	...
Braco	...	2.54 2.40	Mandeville	...	6.46
Arcadia	...	2.85 2.76	Marshall's Pen	...	11.50
Lancaster	...	3.49	Derry	...	...
Vale Royal	...	2.56 2.80	Barton Isles	St. Elizabeth	5.75
Hyde Hall	...	3.93 3.39	Applenton	...	6.55
Hyde	...	4.06	Holland	...	6.88
	...	6.85	Kepp	...	8.77
			Mount Charles	...	5.09
			Mount Edgecombe	Westmoreland	7.65
			Windsor Forest	...	10.21
			Kow Park	...	4.77
			Chester Castle	Hanover	12.18
			Burnt Ground	...	11.03
			Kempshot	St. James	8.37
			Anchovy	...	10.71
			Wiltshire	...	11.74
			Round Hill	Hanover	8.92
			Cacoon Castle	...	9.33
			Tryall	...	7.16

# METEOROLOGICAL RESULTS FOR JUNE, 1881.—(Continued).

## WEST CENTRAL DIVISION—continued.

		JUNE.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Sweet River	Westmoreland	10.38	...
Roaring River	...	...	...
Fort William	...	13.24	...
Cornwall	...	6.18	...
Windsor (Sav.-Ja-Mar)	...	7.99	...
Frome	...	8.16	...
Belle Isle	...	7.59	...
Kew Estate	Hanover	11.37	...
Esher	...	6.53	...
Orange Cove	...	6.87	7.72
Prospect	...	15.50	...
Mean		8.66	6.22

## SOUTHERN DIVISION.

		JUNE.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Mount Sinai	St. Thomas	...	...
Halberstadt	St. Andrew	5.10	...
Hope	...	...	4.17
King's House	...	1.74	...
Monaltrie	...	2.75	3.53
Director of Roads Office, Kingston	...	1.08	3.32
Palisadoes Plantation	...	1.28	...
Plumb Point L. H.	...	1.29	3.79
Spanish Town	St. Catherine	4.37	...
Windsor Park	...	3.25	...
Hog Hole Pen	...	4.20	...
Headworks, R. C. C.	...	7.17	...
Cedars	...	...	...
Lodge Estate	...	3.48	...
Roden Pen	...	4.34	...
Halse Hall	Clarendon	5.32	...
Experiment	...	...	...
Caswell Hill	...	...	...
Bog	...	7.09	...
Greenwich	...	0.96	...
Yarmouth	...	...	...
Denbigh	...	...	5.67
Farm Plantation	Manchester	8.50	...
Great Valley	...	9.88	...
Pepper	St. Elizabeth	5.29	...
Long Hill	...	6.52	...
Santa Cruz	...	6.24	...
Fullerswood Park	...	4.87	2.64
Industry	...	...	...
Black River	...	...	2.68
Hodges	...	5.86	...
Font Hill	...	5.55	...
Mean		4.62	3.69

In Kingston the three gauges which are registered gave the following totals:

50 Church Street	...	INCHES.	1.17
Director of Roads Office	...	1.08	
St. Michael's Parsonage	...	0.94	
Mean		1.06	

The upper gauge at Plumb Point Light House is 68 feet above the lower; these gauges registered 1.13 and 1.29 inches respectively.

## COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		JUNE.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		4.26	5.81
Northern	"	4.21	3.96
West Central	"	7.51 ?	6.22
Southern	"	3.42 ?	3.69
The Island		4.85	4.92

In the North Eastern Division the Rainfall at Rio Hoe was remarkably large; generally it was a little below the average.

In the Northern Division the Rainfall at Spring Vale was remarkably large; generally it was a little above the average.

In the West Central Division the Rainfall was an inch above the average.

In the Southern Division the Rainfall was about the average.

For the whole Island the Rainfall during June was as nearly as possible the average Rainfall for the last ten years.

At Fullerswood Park (the mean maximum temperature was 88°.4 and the mean minimum temperature 75°.0, corrected readings. At Worthy Park the mean maximum temperature was 83°.2 and the mean minimum temperature 61°.3, uncorrected readings:—Worthy Park, near Luidas Vale, is 1,150 feet above the sea level.

Written orders have just been received from Washington confirming the telegram to discontinue the Telegraphic Weather Reports hitherto sent twice a day from Kingston to Washington.

The Chief Signal Officer has directed that for the future Special Telegrams shall be sent from Kingston to Washington in case of hurricane. But until further orders are received, it is my intention to telegraph to Washington whenever the weather may be disturbed, in just the same way that the U.S. observers at Barbados, Guadalupe, and St. Thomas will telegraph to Jamaica whenever the weather may be disturbed at those places. These cautionary Telegrams are necessary in consequence of the rapidity of the motion of Cyclones and the danger arising from interruption of telegraphic communication.

These Special Telegrams are to be sent:—

- (1) When the Barometer is falling, and when it has fallen one-tenth of an inch below the mean height for the hour of the day when the observation was made.
- (2) When the Barometer is falling, and when the sea is unusually disturbed.
- (3) When the Barometer is falling, and when the sky has a threatening appearance.

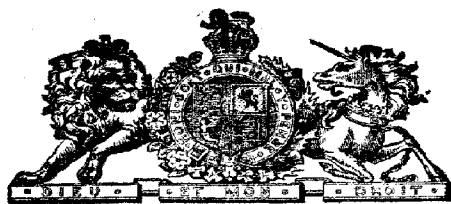
After any Special Telegrams have been received from Barbados, Guadalupe or St. Thomas, the Telegrams will be posted on the Notice Board of the Commercial Exchange in Little Port Royal Street; for the most part they will only mean that the weather is disturbed at the places from which they are sent. When storm is apprehended for Jamaica, a notice will be posted at the Commercial Exchange and Cautionary Flags will be hoisted at that place and at the Colonial Secretary's Office.

These Flags are six feet square—red borders, with a black square in the middle.

Arrangements are being made to pass a Daily Telegram round Jamaica stating the weather at Kingston, and this Telegram will be posted at the Telegraph stations of the principal Outports.

MAXWELL HALL.

Kingston, July 29th.



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JAMAICA.

AUGUST 20, 1881.

No. 2.

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# WEATHER REPORT

FOR THE MONTH OF JULY,

1881.



FROM THE JAMAICA GAZETTE.

*August 18th, 1881,*

WITH ADDITIONS AND CORRECTIONS.

---

**Published by Authority.**

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J A M A I C A .

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUNE STREET, KINGSTON;

1881.

# MEOROLOGICAL RESULTS FOR JULY, 1881.

KINGSTON:—		Inches.
Mean Pressure	...	30.008
“ Temperature	...	81°.1
“ Maximum Temp.	...	90.0
“ Minimum Temp.	...	74.4
“ Range of Temp.	...	15.6
“ Direction of the Wind	...	S. E.
“ Velocity of the Wind	5.0 Miles per Hour	
“ Temp. of the Dew-point	...	72°.3
“ Humidity	...	76
“ Percentage of Cloud	...	64
Total Rainfall in inches		6.05

Average Weather:—Warm and unsettled, frequent showers and several thunderstorms.

The highest temperature was 93°.8 recorded on the 7th; the lowest was 71°.8 recorded on the 22nd; the extreme range was therefore 22°.0.

THE RAINFALL FOR JULY, 1881.

The average July Rainfall given in these second columns for different stations is taken from the article on Meteorology in the *Handbook of Jamaica*; and as there explained, it applies to the July Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.		
JULY.		
1881.   Average.		
	INCHES.	INCHES.
Morant Point L. H.	St. Thomas	3.61 3.48
Hordley	...	6.31 ...
Potosi	...	8.36 ...
Boston	Portland	16.50 ...
Port Antonio	...	18.48 ...
Spring Garden	...	6.67 ...
Chepstow	...	4.71 ...
Cinchona Plantation	St. Andrew	6.15 4.78
Belle Vue	...	6.69 ...
Stony Hill	...	9.28 ...
Castleton Gardens	St. Mary	7.80 7.32
Water Valley	...	1.91 4.43
New Ramble	...	... 3.65
Gayle	...	... ..
Goshen	...	4.79 ...
Rio Hoe	St. Ann	6.82 ...
Unity Valley	...	3.73 6.91
Albion	...	4.82 4.13
Bradfield	...	1.13 4.28
Windsor	...	... ..
Drax Hall	...	1.65 2.91
Seville	...	1.63 ...
Richmond Estate	...	1.31 ...
Mandoverly	...	0.76 ...
Mean		5.83 4.65

NORTHERN DIVISION.		
JULY.		
1881.   Average.		
	INCHES.	INCHES.
Lillyfield	St. Ann	...
Home Castle	...	2.90 ...
Richmond Pen	...	4.68 ...
Colokis Pen	Trelawny	4.46 ...
Mahogany Hall	...	3.94 ...
Hopewell	...	5.15 4.16
Brampton Bryan	...	3.98 3.37
Bryan Castle	...	1.08 2.48
Braco	...	1.25 2.41
Arcadia	...	2.87 ...

NORTHERN DIVISION—continued.		
JULY.		
1881.   Average.		
	INCHES.	INCHES.
Lancaster	...	2.03 2.66
Vale Royal	...	4.29 3.48
Hyde Hall	...	3.61 ...
Hyde	...	5.94 ...
Belmont Pen	...	... ..
Georgia	...	4.77 2.92
Steelfield	...	6.63 ...
Etingdon	...	6.94 ...
Oxford	...	5.05 ...
Cambridge	...	2.65 ...
Spring	...	3.83 ...
Lottery	...	2.62 2.40
Falmouth	...	1.96 1.49
Holland	...	0.60 ...
Golden Grove	...	2.15 ...
Green Park	...	1.15 ...
Tilston	...	4.64 ...
Orange Valley	...	0.74 2.84
Kent	...	1.09 ...
Dundee	...	1.70 3.91
Gales Valley	...	3.90 5.30
Greenwood	St. James	0.94 ...
Lima	...	2.36 ...
Content	...	... 2.54
Guilsbro'	...	3.00 ...
Spring Vale	...	6.15 8.29
Salters Hill	...	3.48 6.99
Success	...	1.81 1.51
Running Gut	...	0.70 1.11
Tryall	...	1.95 ...
Irwin	...	... 3.07
Ironshore	...	1.33 ...
Catherine Hall	...	3.45 ...
Catherine Mount	...	4.55 4.89
Fairfield	...	3.60 ...
Mean		3.18 3.46

WEST CENTRAL DIVISION.		
JULY.		
1881.   Average.		
	INCHES.	INCHES.
Linstead	St. Catherine	5.14 ...
Worthy Park	...	5.53 ...
Chapelton	Clarendon	... 4.37
Fennants	...	... ..
Whitney	...	... ..
Cave Valley	St. Ann	4.44 5.15
Cedar Grove	Manchester	... ..
Hanbury	...	7.25 ...
Mandeville	...	6.13 6.08
Marshall's Pen	...	5.11 ...
Derry	...	... ..
Barton Isles	St. Elizabeth	8.27 ...
Appleton	...	6.79 ...
Holland	...	5.80 ...
Kepp	...	6.51 ...
Mount Charles	...	8.16 ...
Mount Edgecombe	Westmoreland	9.32 ...
Windsor Forest	...	8.85 ...
Kew Park	...	11.85 ...
Chester Castle	Hanover	7.94 ...
Burnt Ground	...	6.78 ...
Kempshot	St. James	... ..
Anchovy	...	3.27 ...
Wiltshire	...	4.60 ...
Round Hill	Hanover	3.10 ...
Cacoa Castle	...	4.73 ...

# METEOROLOGICAL RESULTS FOR JULY, 1881.—(Continued)

## WEST CENTRAL DIVISION—continued.

		JULY.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Tryall	...	4.75	...
Sweet River	Westmoreland	6.88	...
Roaring River	...	...	...
Fort William	...	9.42	...
Cornwall	...	3.12	...
Windsor (Sav.-la-Mar)	...	5.49	...
Frome	...	3.49	...
Belle Isle	...	2.30	...
Kew Estate	Hanover	4.81	...
Esher	...	4.25	...
Orange Cove	...	4.52	6.62
Prospect	...	5.24	...
Mean		5.93	5.56

## SOUTHERN DIVISION.

		JULY.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Mount Sinai	St. Thomas	...	...
The Abbey	...	9.02	...
Halberstadt	St. Andrew	7.64	...
Hope Plantation	...	7.30	3.35
Cherry Garden*	...	6.11	...
King's House	...	4.54	...
Monaltrie	...	2.18	2.73
Director of Roads Office, Kingston	...	4.24	2.03
Palisadoes Plantation	...	...	...
Plumb Point L. H.	...	3.02	2.17
Spanish Town	St. Catherine	1.63	...
Windsor Park	...	4.44	...
Hog Hole Pen	...	2.46	...
Headworks, R. G. C.	...	3.88	...
Cedars	...	...	...
Lodge Estate	...	1.31	...
Roden Pen	...	2.46	...
Halse Hall	Clarendon	3.74	...
Experiment	...	4.58	...
Caswell Hill	...	2.19	...
Bog	...	5.65	...
Gibbons	...	5.30	...
Greenwich	...	5.16	...
Yarmouth	...	...	...
Denbigh	...	...	3.24
Farm Plantation	Manchester	5.35	...
Great Valley	...	5.17	...
Pepper	St. Elizabeth	2.63	...
Long Hill	...	6.80	...
Gilnock Hall	...	6.70	...
Santa Cruz	...	8.72	...
Fullerswood Park	...	4.17	3.99
Industry	...	...	...
Black River	...	8.50	5.16
Hodges	...	6.43	...
Font Hill	...	3.61	...
Mean		4.84	3.24

In Kingston the three gauges which are registered gave the following totals:

	INCHES.
50 Church Street	4.46
Director of Roads Office	4.24
St. Michael's Parsonage	6.05
Mean	4.92

The upper gauge at Plumb Point Light House is 68 feet above the lower; these gauges registered 2.73 and 3.02 inches respectively.

\* Register was commenced on the 7th.

## COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		JULY.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		3.85	4.65
Northern	"	2.95	3.46
West Central	"	5.03	5.56
Southern	"	4.92	3.24
The Island		4.19	4.25

The Rainfall over the Island during July was therefore very nearly the average; this was also the case during June; and this steadiness of the Rainfall is very encouraging.

It will be noticed that the Rainfall at Port Antonio and Boston was remarkably large. The registration of the Rainfall has just been commenced at these places, which are situated at the north-eastern end of the Island.

The gauges are eight inches in diameter and are of the best construction; the gauge at Port Antonio is registered by Mr. J. H. Dodd, District Engineer; that at Boston by Mr. F. A. Jenoure. A copy of Mr. Dodd's register is here given:

July	Inches.
1	1.26
2	5.31
3	0.16
5	0.02
8	2.14
9	0.61
11	0.28
12	0.35
19	4.83
21	0.19
25	0.08
27	0.43
30	1.75
31	1.07
Total	18.48

But there is this to be said about Mr. Dodd's register that the dates apply to the registration and not to the Rainfall. Rain-gauges should be registered early in the morning before the sun gets hot, otherwise there will be evaporation; but the Rainfall should be entered in the register for the preceding day, and not for the day on which the entry was made, because the rains in Jamaica generally fall during the afternoon.

Thunderstorms were prevalent during July from one end of the Island to the other; and there were a few aquals, of which the most noticeable occurred on the night of the 26th among the Blue and Port Royal Mountains.

The health of Kingston was very good in spite of the high temperature (the July temperature last year was only 79°.5), and this is probably due to the largely increased action of the wind; there were very few cases of fever.

At Fullerswood Park the mean maximum temperature was 90°.7, and the mean minimum temperature was 74°.6, corrected readings.

At Worthy Park the mean maximum temperature was 82°.2, and the mean minimum temperature 60°.0, uncorrected readings. Worthy Park is about 1,150 feet above the sea-level.

## METEOROLOGICAL RESULTS FOR JULY, 1881.—(Continued).

Reference was made last month to the establishment of a daily telegraphic communication between Kingston and the Out-Ports.

The first Kingston Weather Report was telegraphed round the Island on the 10th August, and it was posted at the telegraph offices of the following Towns: Black River, Savanna-la-Mar, Lucea, Montego-Bay, Falmouth, St. Ann's Bay, Port Maria, Port Antonio and Morant Bay. This daily service will be continued for the future; on Sundays however all the Island telegraph offices are closed.

These Weather Reports give the readings of the barometer, corrected and reduced to 32° and the sea-level, the temperature of the air, the direction and force of the wind, and the weather; all for 7 o'clock in the morning at Kingston, unless otherwise expressly stated. Additional remarks are made when necessary.

When no reference is made in these Reports to the

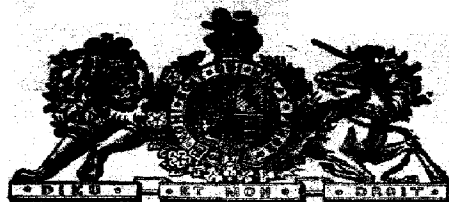
weather at Barbados, Guadeloupe, St. Thomas, or Santiago de Cuba, it is to be understood that the weather at these places is undisturbed; but although such negative information is valuable, I would advise ship-masters and others not to trust too much to it; small disturbances may pass the Windward Islands unnoticed at these stations, or disturbances may generate in the Gulf Stream this side of the Islands; and ship-masters should watch their barometers carefully, having compared them with the 7 a.m. Kingston reduced readings when the atmospheric pressure was steady.

Arrangements are being made to obtain Weather Reports from a few selected stations round Jamaica; these Reports will be telegraphed up to Kingston every afternoon, and published in the Newspapers next morning.

MAXWELL HALL,

Kingston, August 19.





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JAMAICA.

SEPTEMBER 17., 1881.

No. 3.

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# WEATHER REPORT

FOR THE MONTH OF AUGUST,

1881.

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FROM THE JAMAICA GAZETTE.

*September 15th, 1881,*

WITH ADDITIONS AND CORRECTIONS.

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**Published by Authority.**

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JAMAICA:  
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON,  
1881.

# METEOROLOGICAL RESULTS FOR AUGUST, 1881.

KINGSTON :—			NORTHERN DIVISION, continued		
			AUGUST.		
			1881.	Average.	
			INCHES.	INCHES.	
Mean Pressure	...	29.965			
" Temperature	...	80°.4			
" Maximum Temp.	...	88.3			
" Minimum Temp.	...	73.7			
" Range of Temp.	...	14.6			
" Direction of the Wind	...	S.E.			
" Velocity of the Wind	3.5 Miles per Hour				
" Temp. of the Dew-point	...	72°.9			
" Humidity	...	79			
" Percentage of Cloud	...	56			
Total Rainfall in inches	...	4.75			
Average Weather :—The first fortnight unsettled, the last fortnight warm, close and disturbed.					
The highest temperature was 91°.0 recorded on the 23rd; the lowest was 70°.0 recorded on the 14th; the extreme range was therefore 21°.0.					
THE RAINFALL FOR AUGUST, 1881.					
The average August Rainfall given in the second column for different stations is taken from the article on Meteorology in the <i>Handbook of Jamaica</i> ; and as there explained, it applies to the August Rainfall during the ten years from 1870 to 1879 inclusive.					
NORTH EASTERN DIVISION.			AUGUST.		
			1881.	Average.	
			INCHES.	INCHES.	
Morant Point L. H.	St. Thomas	...	5.08	5.46	
Hordley	...	...	13.43	...	
Potom	...	...	11.17	...	
Boston	Portland	...	15.05	...	
Port Antonio	...	...	22.64	...	
Spring Garden	...	...	2.70	...	
Chepstow	...	...	4.18	...	
Cinchona Plantation	St. Andrew	...	7.33	8.18	
Belle Vue	...	...	9.76	...	
Stony Hill	...	...	7.42	...	
Castleton Gardens	St. Mary	...	5.11	10.48	
Water Valley	...	...	3.83	4.24	
New Ramble	...	...	3.48	5.69	
Gayle	...	...	...	...	
Goshen	...	...	...	...	
Rio Hoe	St. Ann	...	13.17	...	
Unity Valley	...	...	4.74	5.33	
Albion	...	...	4.31	5.85	
Bradfield	...	...	...	5.05	
Windsor	...	...	...	...	
Drax Hall	...	...	1.93	3.21	
Seville	...	...	1.41	...	
Richmond Estate	...	...	0.37	...	
Llandoverly	...	...	0.10	...	
Mean	...	...	6.86	6.61	
NORTHERN DIVISION.			AUGUST.		
			1881.	Average.	
			INCHES.	INCHES.	
Lillyfield	St. Ann	...	4.13	...	
Hama Castle	...	...	3.24	...	
Richmond Pen	...	...	6.33	...	
Colehis Pen	Trelawny	...	5.64	...	
Mahogany Hall	...	...	7.88	...	
Hopewell	...	...	9.03	5.50	
Brampton Bryan	...	...	1.90	4.64	
Bryan Castle	...	...	1.93	3.54	
Braco	...	...	2.15	3.88	
Arcadia	...	...	3.78	...	
Lancaster	...	...	1.77	3.87	
Vale Royal	...	...	4.56	5.44	
Hyde Hall	...	...	4.93	...	
Hyde	...	...	4.73	...	
Belmont Pen	...	...	...	...	
Georgia	...	...	2.80	4.64	
Steelfield	...	...	2.88	...	
Etingdon	...	...	3.89	...	
Oxford	...	...	3.80	...	
Cambridge	...	...	5.87	...	
Spring	...	...	3.93	...	
Lottery	...	...	8.50	3.96	
Falmouth	...	...	3.42	2.00	
Holland	...	...	3.46	...	
Golden Grove	...	...	7.25	...	
Green Park	...	...	2.63	...	
Tilston	...	...	8.20	...	
Orange Valley	...	...	2.21	3.57	
Kent	...	...	1.47	...	
Dundee	...	...	4.16	5.36	
Gales Valley	...	...	9.10	6.88	
Greenwood	St. James	...	0.81	...	
Lima	...	...	...	...	
Content	...	...	...	5.58	
Gulibro'	...	...	7.10	...	
Spring Vale	...	...	8.67	12.84	
Latum	...	...	8.80	...	
Salters Hill	...	...	4.42	8.47	
Success	...	...	0.86	2.59	
Running Gut	...	...	0.83	2.33	
Tryall	...	...	1.76	...	
Irwin	...	...	...	6.40	
Ironshore	...	...	4.09	...	
Providence	...	...	3.06	...	
Catherine Hall	...	...	9.00	...	
Catherine Mount	...	...	7.77	8.31	
Fairfield	...	...	8.93	...	
Mean	...	...	4.65	5.31	
WEST CENTRAL DIVISION.			AUGUST.		
			1881.	Average.	
			INCHES.	INCHES.	
Linstead	St. Catherine	...	7.51	...	
Worthy Park	...	...	6.71	...	
Chapelton	Clarendon	...	...	10.28	
Pennants	...	...	...	...	
Whitney	...	...	4.04	...	
Cave Valley	St. Ann	...	4.52	8.68	
Cedar Grove	Manchester	...	...	...	
Hanbury	...	...	...	...	
Mandeville	...	...	11.59	10.60	
Marshall's Pen	...	...	5.42	...	
Derry	...	...	...	...	
Barton Isles	St. Elizabeth	...	13.17	...	
Appleton	...	...	11.05	...	
Maroon Town	St. James	...	7.46	...	
Holland	St. Elizabeth	...	6.43	...	
Kepp	...	...	9.87	...	
Mount Charles	...	...	8.36	...	
Mount Edgecombe	Westmoreland	...	4.32	...	
Windsor Forest	...	...	5.08	...	
Kew Park	...	...	8.27	...	
Chester Castle	Hanover	...	10.83	...	
Burnt Ground	...	...	...	...	
Kempshot	St. James	...	...	...	
Anchovy	...	...	12.59	...	
Wiltshire	...	...	11.21	...	
Round Hill	Hanover	...	4.10	...	
Cacaoon Castle	...	...	7.83	...	
Golden Grove	...	...	14.52	...	
Tryall	Hanover	...	7.72	...	
Carawina	Westmoreland	...	5.02	...	

# METEOROLOGICAL RESULTS FOR AUGUST, 1881.—(Continued).

## WEST CENTRAL DIVISION—continued.

		AUGUST.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Sweet River	...	3.54	...
Roaring River	...	4.81	...
Fort William	...	6.66	...
Cornwall	...	3.80	...
Windsor (Sav.-Ja-Mar)	...	5.35	...
Frome	...	9.17	...
Belle Isle	...	9.85	...
Kew Estate	Hanover	6.84	...
Esher	...	5.50	...
Orange Cove	...	6.28	7.45
Prospect	...	7.66	...
Abingdon	...	8.30	...
Mean		7.58	9.25

## SOUTHERN DIVISION.

		AUGUST.	
		1881.	AVERAGE.
		INCHES.	INCHES.
Mount Sinai	St. Thomas	...	...
The Abbey	...	13.16	...
Halberstadt	St. Andrew	7.19	...
Hope Plantation	...	...	8.13
Cherry Garden	...	7.08	...
King's House	...	5.45	...
Monaltrie	...	4.07	6.36
Director of Roads Office, Kingston	...	3.95	6.01
Palisadoes Plantation	...	2.39	...
Plumb Point L. H.	...	4.86	5.32
Spanish Town	St. Catherine	7.19	...
Windsor Park	...	4.92	...
Hog Hole Pen	...	6.31	...
Headworks, R. C. C.	...	9.01	...
Cedars	...	4.78	...
Lodge Estate	...	4.24	...
Roden Pen	...	...	...
Halse Hall	Clarendon	1.58	...
Experiment	...	4.00	...
Caswell Hill*	...	3.10	...
Bog	...	...	...
Gibbons	...	...	...
Greenwich	...	4.34	...
Yarmouth	...	...	...
Denbigh	...	...	5.80
Farm Plantation	Manchester	6.99	...
Great Valley	...	4.17	...
Pepper	St. Elizabeth	8.85	...
Long Hill	...	4.53	...
Gilnock Hall	...	8.30	...
Santa Cruz	...	7.01	...
Fullerswood Park	...	6.13	6.12
Industry	...	...	...
Black River	St. Elizabeth	6.40	7.21
Hodges	...	9.91	...
Font Hill	...	5.47	...
Mean		5.91	6.42

In Kingston the three gauges which are registered gave the following totals:

	INCHES.
50 Church Street	4.16
Director of Roads Office	3.95
Rac Town	4.75
Mean	4.29

The upper gauge at Plumb Point Light House is 68 feet above the lower; these gauges registered 4.13 and 4.86 inches respectively.

\* To 27th only.

## COMPARATIVE TABLE. (Based upon the "Average" Stations only.)

		AUGUST.	
		1881.	AVERAGE.
		INCHES.	INCHES.
North Eastern Division		4.48	6.01
Northern	"	4.15	5.31
West Central	"	7.46	9.25
Southern	"	4.82	6.42
The Island		5.23	6.75

It thus appears that the Rainfall over the Island was a little less than the average for August. The only heavy fall occurred at Port Antonio, but of the 22 inches registered at that place during the month, 10 inches fell on the 6th August.

All the estates along the north-central shore suffered severely from drought; but towards the interior there was an average rainfall.

There were the usual thunderstorms, some lives lost and some destruction of property. The trash-house at Belle Isle in Westmoreland was struck by lightning on the 21st., and burnt down, and other casualties have been noticed in the newspapers.

In Westmoreland the weather has been favorable for the sugar canes in deep moist land.

From Hordley in St. Thomas, at the other end of the Island, we learn that "the canes in spite of the rain on the 6th August, have suffered much from the intense heat. They are remarkably free from *Aphides*." It seems that these insects which do great harm to the canes appear in certain states of the weather; and Mr. Harrison will do good service by merely noting the weather and the state of his canes.

At King's House, the average max., temp., was 88°5 the min. 69°9, almost 4° below Kingston.

At Worthy Park, 88° and 64° respectively.

At Fullerswood Park 90° and 73° respectively.

Last month the Report stated that "The health of Kingston was very good in spite of the high temperature, and this is probably due to the largely increased action of the wind; there were very few cases of fever." During August the town was remarkably healthy; there were no deaths from fever; and although there was a little less wind than in July, we must always expect these effects to follow the causes by at least a fortnight or so.

At Turks Island the Rainfall for August was only 2.66 inches, but the rest of the valuable register kept there requires a little modification before it can be compared with other registers.

## DEPRESSIONS WHICH HAVE RECENTLY PASSED JAMAICA.

No. 1. The barometric pressure began to give way on the morning of the 27th July, reaching its lowest (29.93)† about the midnight dividing the 28th and 29th. At this time the barometer at Belize, British Honduras, was affected, reaching its lowest on August 3rd, the continued fall being probably due to the development of the depression.

In the *New York Herald* of August 4th we read:—"The storm centre yesterday in the Gulf of Mexico coming just as the hurricane season is setting in over the West Indies is a warning to Atlantic shipping to prepare for encountering tropical Cyclones this month."

No. 2. was the first depression which occurred after the establishment of the morning telegrams between the Weather Office, Kingston, and the Outposts. The pressure began to give way on the afternoon of the 15th August with an easterly cloud-drift; at 8 a.m. the following morning the circular telegram stated that the upper cloud-drift was South-west; that is to say, the

† Brackets indicate that the barometric readings corrected as usual have been further corrected for the Diurnal Variation.

# METEOROLOGICAL RESULTS FOR AUGUST, 1881.—(Continued)

depression had already passed Jamaica, moving in a North-westerly direction. The barometer however continued to fall and reached its lowest (29.92) on the night of the 16th showing that the depression was developing.

In the *Daily Gleaner* of the 25th August we read:—"The New York Herald of the 19th comments editorially on a Cyclone which has just advanced northward from the West Indies and is likely to prove very severe on the Atlantic Ocean. Cuba had a brush from it, and immense quantities of rain fell there. It also touched the northern part of the Bahamas."

No. 3 was probably a very large Cyclone. The barometer at Kingston was at its average height for August on the 22nd, but it was falling. At 5.30 p.m. a telegram was received from St. Thomas indicating that there was a disturbance to the North of that Island. During the night there was a marked fall in the Kingston barometer, so that there was no doubt that the disturbance was a serious one. It may be here stated that Kingston is about 800 miles from St. Thomas.

At 7 a.m. on the morning of the 23rd the warning was telegraphed to Washington, and also to Santiago de Cuba; and the Jamaica circular stated:—"Disturbance reported yesterday from St. Thomas will probably pass far North of Jamaica to-day."

The pressure remained low and steady (29.91) on the 23rd, 24th, and 25th, so that the Cyclone continued to move North-west, threatening the Bahamas and the Southern Atlantic States.

The following particulars of the Storm at St. Thomas are from the *St. Thomas Lloyd's* of the 23rd August:—

"The weather reports received during the past week and especially yesterday, have been of such a nature as to lead us to expect some disturbance in the weather. Yesterday was a very calm day with light winds varying from South to West, and later on, rain squalls; but no alarm was felt. At 7 o'clock p.m. we had a heavy rain squall from the West which lasted sometime accompanied by moderate wind. It was succeeded by a calm, and between the hours of 2 and 4 in the morning (23rd), heavy gusts of wind from the South-west, coupled with the barometric depression in the afternoon and evening, caused some apprehension. Gusts of wind then blew alternating between West and South. During the heavy sea which was running, three vessels broke away from their moorings (and were wrecked). The W. I. and P. Telegraph Company's repairing Steamer *Grappler* returning this morning from Saba experienced heavy South-west winds at 4 p.m. yesterday."

Mr. R. B. Llewellyn has given us full particulars of the passage of this Cyclone a little North of Turks Islands. The wind backed from the N. during the morning of the 23rd, to N.W. during the evening: at 4 or 6 a.m. the following morning the wind blew a gale from the West with lowest barometer (29.80); and then the wind blew from the S.W., S., and S.E.

Mr. Llewellyn also collected the following information from vessels which touched at or communicated with Turks Island.

The American s.s. "*Santo Domingo*" which left New York on the Tuesday afternoon, 23rd Aug., for Turks Islands direct, did not feel the wind of the hurricane but met a tremendous sea. The brigantine "*Rapid Transit*," from Boston to Cape Haiti, encountered a terrific Hurricane from the South-east on the 24th August in Latitude 25° 53' N. Longitude 63° 50' W.; the storm lasted three days—"foresail, lower and upper topsails were blown from the yards after being furlled, also lost foretopmast and mainstay sails."

The brigantine "*Starlight*," bound from Bangor to Turks Islands, reports:—"Left Bangor on the 8th August. First part of passage fair with variable winds, August 18th, 19th, 20th, 21st squally and thick: no observations: very hot winds. August 22nd first part of the day wind S. fresh, canting to N.E. At 11 p.m. fresh gale from N.E.: at midnight reefed mainsail."

August 23rd Wind still increasing with heavy squalls from N.E.

August 24th at 3 a.m. wind increased to a Hurricane: hove the ship on the port tack for 12 hours: wind backed round to S.W. and died out calm. Wore ship and lay on starboard tack: wind increased to a Hurricane from S.W., lasting about 12 hours, and backing gradually to S.E. Blew a heavy gale for two days during which the ship was obliged to lay to. Made sail on the 26th and arrived at Turks Islands on the 28th."

It thus appears that the centre of the Cyclone passed over the "*Starlight*" about 3 o'clock on the afternoon of the 24th. The ship was then in lat. 24° 10' N., long. 70° 0' W., Turks Islands bearing about 170 miles S.S.W.; the barometer (uncorrected) was oscillating one tenth of an inch above and below 29.0; but there is something wrong about the time of the passage of the centre over the "*Starlight*" when compared with the time of lowest pressure at Turks Island.

If we turn to Mr. Llewellyn's register we find that the mercurial barometer was nearly steady all day at 29.80, although the lowest reading was taken at 6 a.m. by an aneroid; and that the wind was West all day with squalls of rain. Hence if we admit a little irregularity on the part of the aneroid, as is generally the case, the three accounts agree, and the Cyclone did not reach the meridian of Turks Island until the afternoon of the 24th.

Mr. Llewellyn's register is here given; a correction of 0.15 has been added to the readings of an inferior mercurial barometer; the velocity of the wind was estimated, not measured.

## Turks Island, August, 1881,

Day.	Hour.	Bar. (corr.)	Temp.	Wind direction and miles per hour.	Remarks.
		in.	°		
22	7 a.m.	30.05	85	E.	15
	3 p.m.	30.05	90	N.E.	15
23	7 a.m.	29.90	86	N.	18
	10 a.m.	83	...	N.N.W.	18
	12 n.	83	...	N.N.W.	18
	3 p.m.	85	91	N.W.	18
24	7 a.m.	80	85	W.N.W.	20
	13 n.	80	...	W.	20
	3 p.m.	80	86	S.W.	20
25	7 a.m.	85	84	S.W.	22
	3 p.m.	90	89	S.W.	22
	7 a.m.	90	86	S.E.	18
26	3 p.m.	29.95	90	E.	18

News has just been received that this Cyclone devastated the Southern Atlantic States on the 27th. We thus have briefly:—St. Thomas, 3 a.m. 23rd; Turks Island, 3 p.m. 24th; Savannah, 27th August.

No. 4. Before the barometer had time to recover from the last depression, Jamaica was threatened by another one passing to the South.

At 7 a.m. on the 27th the pressure began to give way; the fall continued all that day, and all next day, which happened to be Sunday so that the Telegraph Offices were closed.

At 7 a.m. on Monday the 29th telegrams were sent to Washington and Santiago stating that a large depression was passing South. The Island circular was to the same effect; reports were called in from the Out Stations at 10 a.m. as well as at 3 p.m. the usual hour.

Hourly readings were taken during the 28th and 29th; and the lowest reading (29.83) was obtained at 1 a.m. on the morning of the 29th.

No information has yet been received as to the progress of this storm.\*

No. 5 was a small depression. The lowest reading was (29.86) at 1 a.m. on the morning of September the 3rd. The wind and cloud-drift were irregular; the telegrams were to the effect that the depression was passing South of Jamaica.

MAXWELL HALL,

Kingston, 9th September, 1881.

\* It passed Barbados and Martinique on the 27th, south of Jamaica on the 29th, and south of Cuba on the 30th or 31st. M. H. Sept. 15th.